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In the United States Patent and Trademark Office

Appln. Series No: 09/706,382

Appln filed: 11/06/00

Applicant: J. T. Lin

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Tel: (407)482-4555 (office)

Title: Apparatus and Methods for the Treatment of Prsbyopia using Fiber-coupled Lasers

Comments on Statement of Reasons for Allowance

(submitted on July 2, 2001)

Examiner: David Burd/3739

Assistant Commissioner for Patent  
Patent Office, DC

Dear Sir:

In response to your Office Action mailed on 06/28/01, please find Amendment below.

SPECIFICATION:

Page 5, lines 11,12 and 16: change all "corneal" to "scleral"  
page 6, line 13: change "cornea" to "sclera"

CLAIMS: (revised as follows per Examiner's comments)

1. A method, adaptable for performing presbyopic correction in which a portion of the corneal sclera tissue is removed by steps of:
  - (a) selecting a laser beam having a predetermined wavelength;
  - (b) selecting a beam spot controller mechanism, said beam spot controller to reduce and focus said laser beam to a fiber delivery unit;
  - (c) controlling the said fiber delivery unit to deliver said laser beam in a said predetermined pattern onto a plurality of positions on the scleral surface to remove portion of the sclera tissue outside the limbus area, whereby a presbyopic patient's vision is corrected to see near by increasing the accommodation of the eye's lens.
2. A method of claim 1, wherein said laser beam is an ultraviolet laser having a wavelength range of about (0.15 - 0.36) microns and a pulse duration less than about 200 nanoseconds.
3. A method of claim 1, wherein said laser beam is an infrared laser having a wavelength range of about (1.4 - 3.2) microns.
4. A method of claim 3, wherein infrared laser is an optically pumped Erbium:YAG laser having a wavelength of about 2.9 microns.
5. A method of claim 1, wherein said laser beam is an ArF excimer laser having a wavelength of 193 nm.
6. A method of claim 1, wherein said laser beam is a XeCl excimer laser having a wavelength of 308 nm.

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